Q98724 V33510

---816 2481

16.5 16.5

24.2 24.2

44

Page

GenCore version 4.5 Copyright (c) 1993 - 1998 Compugen Ltd.

OM nucleic - nucleic search, using sw model

June 24, 1999, 01:22:16; Search time 67.43 Seconds (without alignments) 410.133 Million cell updates/sec Run on:

US-09-205-015-2

1 agataactgggccaaccatg......... Title: Perfect score: Sequence:

IDENTITY_NUC Scoring table: 240622 segs, 94065609 residues Searched:

N_Geneseq_34:* Database : Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Description	retina	Alpha-GalNAc from	·N-ace	Human gene signatu	7	encod			First intron promo	otella ni	coding	brain E	mma-1	21B4/	e encodi	G-1 coding r	pTK gene HpTK5. Ne	Protein tyrosine-k	റ	Receptor type tyro	Coding sequence fo	Receptor-type tyro	Human Fchd605 gene	Human BDNF vector.	Bovine tracheal an		Human Cdn-1 cDNA.	-Y CDNA	ne. Scree	Ñ	Nucleotide sequenc	Bak cDNA. New Bak-	n B-cell	DNA encoding Termi	Human phospholipas	B. campestris Bgp1	Mutant Aspergilius	DNA molecule encod	DNA encoding human	Clone pTB1284 enco	В	2-acy	Human lung tumour
SUMMARIES	a	V32475	025156	081826	T26078	N91109	005622	N81962	T32301	T09865	V41229	V02016	061216	058718	047076	N70930	040477	049757	T03099	092641	T18394	T42593	T51235	T94471	054375	079534	095493	095492	T17375	T42138	V44303	T75251	V61498	T38308	013224	V58786	066423	V31822	899	990	485	590	068267	815
	BB :	Н	П	-	-	-	-	Н	1	Н	-	Н	Н	1	Н	Н	-	Н	Н	Н	Н	Н	Н	~	Н	-	Н	H	7	7	~1	Н	П	Н	П	-	Н	Н	-1	Н	Н	H	Н	Н
dP (Query Match Length	-	2158	1840	334	495	441	498	6327	1827	142	2525	383	1254	1371	265	495	3969	3969	4290	4290	4290	4290	1228	3252	3370	6511	2072	1968	2094	2460	6623	2094	1843	2068	1758	1621	3300	1855	2035	2676	m	1514	~
	Query		18.2											-				17.1							17.0			17.0															16.5	
	Score		26.8		•	26.4	26.4	26.4	26.4		N	25.8				25.2			25.2		25.2		-	•	25	25	25	25	25	25	25	25	~			₹	24.4	*	4	4	24.2	4	24.2	4
	Result No.		7		ი 4	S	Q	7	დ ს	о О	c 10	Н	12	13	c 14	15	16	Н	Н	Н	~	C)	N	N	c 24	N	56	27	28	59	c 30	31	32	(*)	c 34	••,	٠.,	***	38	٠٠,	c 40	41	c 42	7

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Anti-HIV-1 MAD 447
Human G-protein ad
                                                                                                                                                                                                                                                                                                                                                                                                                                      Human and bovine retin-aldehyde-binding proteins - used to detect aberration(s) of retinal binding in visual excitation systems bisclosure; Fig 1; 39pp; English.

The present sequence represents the bovine retinaldehyde binding protein cDNA isolated from a bovine retinal pigment epithelium (RPE) CDNA library. The bovine retinaldehyde binding protein binds both in-cis-retinal and all-trans retinal. The invention claims that molecular aberration of the visual system can be detected in binding assays by observing any changes in the binding of the retinaldehyde binding protein to its chromophores. The retinaldehyde binding protein con also be used to raise antibodies, which in turn can be used to detect changes of the protein is samples.

Sequence 1420 BP; 291 A; 447 C; 384 G; 298 T;
                                                                                                       L1-SEP-1998 (first entry)
Bovine retinaldehyde binding protein CDNA.
Bovine retinaldehyde binding protein; retinal pigment epithelium; RPE;
11-cis-retinal; all-trans retinal; visual system; binding assay;
Chromophore; ss.
Bos sp.
Key
CDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 7 ctgggccaaccatgactcagtgcttctggaggccaacaggacttctgagtcatcctgtgg 66
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  025156 standard; cDNA; 2158 BP.
025156;
18.NOV-1992 (first entry)
Alpha-GalNAc from pAGB-3.
Lysosome; Schindler disease; infantile neuroaxonal dystrophy; ss.
Homo saplens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 18.4%; Score 27; DB 1; Length 1420; Best Local Similarity 62.7%; Pred. No. 6.3; Matches 42; Conservative 0; Mismatches 25; Indels
                                                                                                                                                                                                                                                        Location/Qualifiers
17 .812
/*tag= a /product- "Retinaldehyde binding protein"
                                                           ALIGNMENTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Location/Qualifiers
345. 1580
/*tabel alpha-GalNAc
345. 395
/*tag b
396. 1580
/*tag c
                                                                                                                                                                                                                                                                                                                                               16-DEC-1994; 358171.
16-DEC-1994; US-358171.
(FONG/) FONG H K W.
                                                                                                                                                                                                                                                                                                                                                                                             Fong HKW;
WPI; 98-347415/30.
P-PSDB; W48857.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          523 GGACAGA 529
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             67 gggtgga 73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          signal_peptide
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Q25156
                                                                                                     RESULT
V32475
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97 atg
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                             Matches
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N91109
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                                                                                                                                                                                                                                                                                                                                                                      1542 CTGTATCCCATCAAGAACCTGGAGATGTCCCAGCAGTGAGGAGCTGGGACATGTGACAGG 1601
                                                                                                                                                         cloning and expression of alpha-n-acetyl-galactose aminidase used in enzyme replacement therapy for Schindler disease bisclosure; Fig 2 (A-D); 71pp; English.

The sequence is of the pages 5 DNA insert contg. the complete coding region for human alpha-GalNAc.

The availability of the full length cDNA for alpha-GalNAc allows the study of the genomic organisation and evolution of this lysosomal gene, and the characterisation of molecular lesions causing Schindler disease.
                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                               32 ctggaggccaacaggacttctgagtcatcctgtgggggtggaggtgggacaagggaaagg 91
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Alpha-N-acetylgalactosaminidase.
Alpha-N-acetylgalactosaminidase; expression; enzyme;
erythrocyte; amplification; primer; polymerase chain reaction; PCR;
probe; blood; type A; type B; type AB; type O; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          or Ab Erythrocytes to type 0
Claim 13; F1g 2; 66pp; English.
The two parimers given in 081823-24 were used in the screening of
libraries contg. sequences specific for alpha-N-
acetylgalactosaminidase cDNA clones. A 466 bp fragment was
obtained, which was then subcloned and used as a probe.
Another probe given in 081825 was used in a secondary
screening process. A full length alpha-N-acetylgalactosaminidase
CDNA was obtained (see 081826).
                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     prodn. of human placental alpha-N-acetylgalactosaminidase - by expression in transformed host cells, used to convert type A,
                                                                                                                                                                                                                                                                                                     Length 2158;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                399 T;
                                                                                                                                                                                                                                                                   455 T;
                                  /*tag= e
/note= "recognised by the U4 small nuclear
ribonucleoprotein"
                                                                                                                                                                                                                                                                                                                           42; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ä
                                                                                                                                                                                                                                                                   576 G;
                                                                                                                                                                                                                                                                                                     DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 485
                                                                                                                                                                                                                                                                                                                                                                                                                1602 CTGTGGTGGCACCACTGAGCCTAGACCATGGAGC 1635
                                                                                                                                                                                                                                                                                                                                                                                               92 ggtgaatggtactgctgattacaacctctggtgc 125
                                                                              14-MAY-1992.
23-OCT-1991; U07872.
24-OCT-1990; US-602608.
(MOUN ) MOUNT SINAI SCHOOL MEDICINE.
Blshop DF, Desnick RJ, Ioannou YA, Wang AM; 92-183672/22.
                                                                                                                                                                                                                                                                                                     Score 26.8; D
Pred. No. 8.2;
                                                                                                                                                                                                                                                                                                                           0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                539 C;
                                                                                                                                                                                                                                                                    610 C;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Location/Qualifiers
73. .1308
/*tag= a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Q81826 standard; cDNA; 1840 BP
                                                                                                                                                                                                                                                                   517 A;
                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity 55.3%;
Matches 52; Conservative
                      .2029
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      10-MAR-1995 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         26-MAY-1994.
08-NOV-1993; U10794.
18-NOV-1992; US-977945.
(GEMV ) GENENCOR INT INC
2073. ...
/*tag=
2025. ...
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1840 BP;
                                                                                                                                                                                                                                                                      2158 BP;
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                       protein_bind
   polya_signal
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                                                                                                                                                                                                                                                                       Sequence
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Q81826
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Claim 1: Page 1996; 2245pp; Japanese.

Claim 1: Page 1996; 2245pp; Japanese.

A single-stranded DNA (or its complementary strand or the corresp.

Couble-stranded DNA) which comprises one of the 7837 "GS" sequences
given in T19001-T26837 and which is able to hybridise to part of
thuman genomic DNA, cDNA or mRNA is claimed. The GS (Gene Signature)
sequences were obtained from 3'-directed cDNA libraries prepared
from various human tissues; synthesis of cDNA was lititated from the
squence of mRNA by using poly(T) as the sole primer. Since the 3'-
untranslated sequence is unique to a particular mRNA species, almost
all the 3'-oriented cDNAs hybridise with specific mRNAs. Each library
claim from the particular tissue from which it was derived
ifferent mRNAs in the particular tissue from which it was derived
determined (esp. using primers and probes derived from the GS
determined (esp. using primers and probes derived from the GS
sequences) as a means of diagnosing abnormal cell function or for
recognising different cell types.
Sequence 334 BP; 65 A; 98 C; 79 G; 79 T;
                                                                                                                                                                             1270 CIGIAICCCAICAAGAACCIGGAGAIGICCCAGCAGIGAGGAGGAGGACAIGIGACAGG 1329
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   37 ggccaacaggacttctgagtcatcctgtgggggtggaggtgggacaagggaaaggggtga 96
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                            Gaps
                                                                                                                                        91
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           16-OCT-1996 (first entry)

Human gene signature HUMOSO8314.

Gene signature; messenger RNA; mRNA; relative abundance; frequency; dene signature; mapping; non-blased library; diagnosis; detection; human; cloning; mapping; non-blased library; diagnosis; detection; Humosapiens.

Humosapiens.

W09514772-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               127 GGACACTCTGACTATTGCACAATCCTGGGGGGGTNCCCCAGGGACAAGGGGAAGGAGTGT
                                                                                                                                        32 ctggaggccaacaggacttctgagtcatcctgtgggggtggaggtgggacaagggaaagg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matsubara K, Okubo K;
WPI: 95-206931/27.
Tdentlifying gene signatures in 3'-directed human cDNA library -
for diagnosis of abnormal cell function, by preparing cDNA that
reflects relative abundance of corresp. mRNA in specific human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
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             Length 1840;
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63.5%; Pred. No. 5;
Live 0; Mismatches 23; Indels
                                                                            Indels
                    DB 1;
18.2%; Score 7.9; 55.3%; Pred. No. 7.9; ... 0; Mismatches
                                                                                                                                                                                                                                                                                                                                   1330 CIGIGGIGGCACCACIGAGCCIAGACCAIGGAGC 1363
                                                                                                                                                                                                                                                                       92 ggtgaatggtactgctgattacaacctctggtgc 125
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BP
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T26078 standard; cDNA to mRNA; 334
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       N91109 standard; DNA; 495 BP. N91109; 21-JUN-1990 (first entry)
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Best Local Similarity 63.5
Matches 40; Conservative
                                                                                   52; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     01-JUN-1995.
11-NOV-1994; J01916.
12-NOV-1993; JP-355504.
(MATS/) MATSUBARA K.
(OKUB/) OKUBO K.
                       Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            99
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Human

Matches

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WRI'S 82-287314/41.
P-PSDB, P81514.
Rat and human reg genes -
used for producing proteins for regeneration of
insulin-producing D cells of patients with diabetes
Claim 1; fig 3; 12pp; English.
The reg gene is specifically expressed in regenerating pancreatic islet
B cells. A gene hybridising to a probe corresponding to at least a part
of the whole base sequence of rat reg gene or human reg gene is claimed.
By mass producing the proteins encoded by the gene it may be possible
to open a new dimension in the treatment of diabetes
Sequence 498 BP; 116 A; 136 C; 130 G; 116 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /*tsg= a //rduct= M1-2 //rode= "the first ATG is at nucleotide 90, the sequence given starts at nucleotide 91" 1579. .6417
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    49 ttctgagtcatcctgtgggggtggaggtgggacaagggaaaaggggtgaatggtactgctg 108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         224 recreacecasaceasacerecrrreresecereacrearrangeseasacreaceasers 283
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 18.0%; Score 26.4; DB 1; Length 498; Best Local Similarity 57.1%; Pred. No. 7.4; Matches 48; Conservative 0; Mismatches 36; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          30-0CT-1996 (first entry)
Dermatomyositis specific autoantigen, Mi-2, coding sequence.
Mi-2: autoantigen; collagen disease; chromosome 12; 12pl3;
helicase; dermatomyositis; diagnosis; ss.
Homo saplens.
                                                                                                                 02-FEB-1991 (first entry)
Sequence of human reg cDNA
Pancreatic islet B cell regeneration; diabetes; therapy; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                15-MAY-1996.
115-MAR-1995; 009279.
15-MAR-1995; DB-009379.
(PRIV-) PRIVATES INST IMMUNOLOGIE & MOLEKULARGEN.
Renz M, Seelig HP;
RPI: 96-340280/25.
P-PSDB; R99534.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Location/Qualifiers
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   284 ACTICAATGICIGGATIGGCCICC 307
                                                                                                                                                                                             Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             11/c
T32301 standard; cDNA; 6327 BP.
T32301;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /*tag= b
6234..6240
/*tag= c
                                                                                                                                                                                                                                                 EP-286114-A.
12-DEC-1988.
08-APR-1988.
10-AUG-1987; JP-200514.
(SHIO) Shlonogi Selyaku Kk.
                                                                              N81962 standard; DNA; 498 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  . .5738
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                                                                                                                                                                           Homo sapiens.
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                                         RESULT
N81962
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                                                                                                                                                                                                       New human reg proteins -
useful for regenerating islet B cells in diabetes treatment.
Claim 1. Fig 1. 19pp. English.
Gene encodes reg protein useful in regeneration of human pancreatic islet
B cells in the treatment of diabetes.
Sequence 495 BP: 115 A; 137 C; 128 G; 115 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 221 recreacedadeceasegrecerreresecreacearrangeasersecrears 280
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ttctgagtcatcctgtggggggtggaggtgggacaaggggaaaggggtgaatggtactgctg 108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   167 recreaceceaseceasecrerecerreresecreacearrangeaseasecrears 226
                                                                                                                                                                                                                                                                                                                                                                                                                                              49 ttctgagtcatcctgtggggggtggaggtgggacaagggaaaaggggtgaatggtactgctg 108
                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New human reg. protein and gene encoding it - used for stimulating and activating pancreatic B cells
Disclosure, fig 1, 15pp; English.

The reg protein encoded by this sequence comprises residues 20 (Gln) to 165 (Asn) of the human reg protein, opt. preceded by an N-Met residue. It is involved in regeneration of insulin-producing pancreatic B cells and hence is used in the treatment of diabetes. Sequence 441 BP; 106 A; 118 G; 118 G; 98 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
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                                                                                                                                                                                                                                                                                                                                                                  Score 26.4; DB 1; Length 495; Pred. No. 7.4; 0; Mismatches 36; Indels
                                                                          15-FEB-1989.
9-AUG-1988; 12942.
(SHIO) Shionogi KK.
(SHIO) Shionogi KK.
WPI: 89-048048/07.
P-PSDB; P94614.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      22-AVG-1990.
30-JAN-1990.
30-JAN-1990.
30-JAN-1989; JP-022132.
(SHIO ) SHIONOGI SEIYAKU KK.
(SMIOCH H, Itch T, Teraoka H, Tsuzuki H, Yoshida N;
WPI; 90-255705/34.
P-PSDB; R06425.
proteins; islet cells; diabetes; insulin; ds. sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1. 441
/*tag- a
/label-reg protein analogue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               07-JAN 1991 (first entry)
Sequence encoding reg protein analogue.
Reg protein; diabetes; B cells; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        109 attacaacctctggtgctgcctcc 132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          109 attacaacctctggtgctgcctcc 132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                227 ACTICAAIGICIGGAITGGCCICC 250
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               281 ACTTCAATGTCTGGATTGGCCTCC 304
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1 Similarity 57.1%;
48; Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Q05622 standard; DNA; 441 BP
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Best Local Similarity
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Query Match Best Loca Matches

49

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04-AUG-1998
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DNA encoding dermatomyositis specific auto:antigen - useful for defiderential diagnosis and treatment of dermatomyositis (laim 3: Fig 2: 20pp; German and treatment of dermatomyositis specific and as resent sequence encodes a 218 kD dermatomyositis specific auto-antigen, designated M1-2. The sequence numbering given in the specification starts at nucleotide 91. i.e. the 5' UTR is omitted, as well as the 'A' of the first ATG start codon. The protein is hydrophilic, acidic and protriotiding regions of the protein are characteristic of helicases. The gene corresponding to this cDNA was localised to chromosome 12 (12p13). The DNA can be used for the recombinant production of M1-2 Which is used for, e.g. the differential diagnosis of collagen diseases, esp. dermatomyositis, e.g. by immunoassay or Mestern blotting. Sequence 6327 BP; 1761 A; 1473 C; 1740 G; 1353 T;
                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        First intron promoter region of p75 tumour necrosis factor receptor. Tumour necrosis factor receptor; TNE; TNE-R; sequence motif; probe; motif region; inhibition; induction; inflammation; septic shock; rheumatism, autoimmune disease; graft vs. host reaction; promoter;
                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                            DB 1; Length 6327;
                                                                                                                                                                                                                                                                                                          Score 26.4; DB 1; Length 6
Pred. No. 15;
0; Mismatches 11; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                              5810 GGGGAGAAGCTGGGACAAGAGAAGTGAGGAAGGTCACTGCTCA 5767
                                                                                                                                                                                                                                                                                                                                                                                         66 ggggtggaggtgggacaagggaaaaggggtgaatggtactgctga 109
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/*tag= 9

656. 672

/*tag= h

//label= YY1, CAP-site.

709. 715

/*tag= 1

//abel= CK-2.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Location/Qualiflers
238 . 246
328 . 246
Alabel TCC repeat.
255 . 264
Atag b b b label NF-kB.
256 . 266
71abel NF-kB.
278 . 296
278 . 296
278 . 396 . 396
388 . 393
41abel CK-1.
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/*tag= k
/label= TCC repeat.
1780. .1795
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/*tag= e
/label= CK-1.
567. .572
/*tag= f
/label= IFN.
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/label- IFN.
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First intron promoter regi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  E
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Best Local Similarity 75.0°
Matches 33; Conservative
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Talk 19; Columns 17-18; 29pp; English.

This represents a target internal sequence of Prevotella nigrescens
that can be used as a probe for the specific detection of prevotella
nigrescens. The invention provides a composition of probes for the
specific detection and identification of bacteria associated with
uccleic acid sequences from bacteria selected from Enclosis of strain ATCC 43037, Porphyromonas glugivalis strain ATCC 43037, Prevotella
intermedia strain ATCC 256il and Prevotella nigrescens strain NCTC 9336,
with one of the respective primers shown in V41210 to V41212. The probes
are capable of selectively hybridishing, under stringent hybridizing
conditions, with the nucleic acid sequences from the specified bacteria.
These probes are used in a mathod of detecting bacteria associated with
periodontal disease in a sample obtained from the mouth of a human
patient. Primer pairs (V41213 to V41220) derived from the nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Prevotella nigrescens target internal sequence (3' end) used as a probe. Bacteroides forsythus; Porphyromonas gingivalis; Prevotella intermedia; Prevotella nigrescens; periodontal disease; periodontopathic bacteria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1553 GAGICAGIGCIICIGCCIGCAGACAIGACIAGGGIACACIGAGGIGGGGAGGCAGGGGAG 1612
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             motifs, useful for inhibiting effects of TNF region and sequence motifs, useful for inhibiting effects of TNF region and sequence motifs, useful for inhibiting effects of TNF region and sequence motifs and/or metif regions found within the promoter of p75 tumour necrosis factor receptor (TNF-R) can be used as probes to screen a human genomic or cDNA library to isolate factors that bind to them. Inhibition/induction of such factors should allow modulation of fWR-R production and thus TNF binding. In particular, they should allow inhibition of the deleterious effects of TNF which is involved in inflammation and is a mediator in septic shock, graft searthons, reactions, requence of the deleterium ediseases.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  20 gactcagtgottotggaggccaacaggacttotgagtcatcotgtgggggtggaggtggg 79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Promoter regions of the human p75 tumour necrosis factor receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
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/note= "Fragment of mature peptide (start of exon 2).
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                                                                                                                                                                                                                                                                                                                                                 Wallach D;
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Best Local Similarity 60.6%; Pred. No. 12;
Matches 43; Conservative 0; Mismatches
                                                                                                                                                                                                                                                           (WEIN/) WEINWURZEL H.
(YEDA ) YEDA RES & DEV CO LTD.
Ehrhardt G, Remper O, Kuhnert P,
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11-0CT-1996; US-729447.
(UTLA-) UNIV LAVAL.
GUILLOT E, Menard C, Mouton C;
WPI; 98-446071/38.
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ID V41229 standard; DNA; 142 BP.
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Prevotella nigrescens.
US5789174-A.
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                                                                                                                                        23-NOV-1995.
L1-MAY-1995; U05853
                                                                                                                                                                                                                                                                                                                                             Ehrhardt G, Kemper
WPI; 96-010683/01.
P-PSDB; W00332.
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PF 12-FEB-1993; U01294.

PF 12-FEB-1993; U01294.

PF 12-FEB-1993; U01294.

PF 12-FEB-1993; U01294.

PF 13-FEB-1993; UG-8837195.

USSH ) US DEPT HEALTH & HUMAN SERVICE.

Adams MD, Moreno RF, Venter CJ;

MPI; 93-272882/34.

PAT markers for human genes transcribed in-vivo, facilitate tagging of most human genes transcribed in-vivo, facilitate tagging of most human genes set of ESTS which can be used as markers for human genes transcribed in vivo. They can be used to facilitate tagging of most human genes, for mapping locations of expressed genes or chromosomes, for individual or forensis dentification, for mapping locations of disease-associated genes, for identification of tissue type, and for prepn. of antisense sequences, probes and constructs.

CC Type, and for prepn. of antisense sequences, probes and constructs.

CC Type, and for prepn. of antisense sequences, probes and constructs.

CC Sequence 383 BP; 118 A; 90 C; 94 G; 80 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      169 CCTACCTTTGGGCGGTCTATACTGAAGCCCTCCACTCCCATCCCTCAAGAGGGTGAG 228
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ccaaccatgactcagtgcttctggaggccaacaggacttctgagtcatcctgtgggggtg 71
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     30-SEP-1994 (first entry)

Human gamma-1 chain first membrane exon.

Human gamma-1 chain first membrane; exon, human; gamma-1; chain; membrane anchoring peptides; heavy chain; isotype; cell surface; extracellular region; migis segment; ss.
                                                               16-MAR-1994 (first entry)
Human brain Expressed Sequence Tag BST01251.
Gene transcription product; genetic markers; tagging; in vivo; transcription; mapping; locations; chromosomes; chromosomal; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Disclosure; Fig 1A; 13pp; English.
The sequences given in Q58718-19 represent the first and second membrane exons of the human gamma-1 chain which encode membrane
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Monoclonal antibodies and fragments specific for extracellular migis epitope(s) on B cells - used to bind B cells for immunosuppressive purposes or to remove B cells from the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       44; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DB 1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       229 GAGGTGGGAGAGCAGTGAGGAGCAAGATAATGCT 264
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 25.6; I
Pred. No. 13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0; Mismatches
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547. .678
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03-MG-1990; 562201.
03-AUG-1990; US-562201.
19-UUN-1992; US-902449.
(TANO-) TANOX BIOSYSTEMS INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            17.48;
54.28;
                      standard; DNA; 383
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity 54.2
Matches 52; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             94-100338/12.
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P-PSDB; R60128
                                                                                                                                                  Homo sapiens.
WO9316178-A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 13
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sequences of the probes can also be used for the detection of the bacteria [sic] associated with periodontal disease. The probes can detect the presence of periodontopathic bacteria. The probes and primers provide a quick and specific identification without a need for the initial showledge of the sequence of the targetred DNA.

Sequence 142 BP, 31 X, 34 C; 31 G; 44 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   class I antigens - useful in gene therapy and auto: immune diseases (laim 2; Pages 40-42; 49pp; Japanese.
The present sequence encodes a tumour antigen protein. It was isolated from a gastric cancer cell line. The tumour antigen protein has the ability to form fragments by intracellular digestion which bind to major histocompatibility complex (MiC) class I antigens to form a complex which is recognised by T-cells. The DNA is useful for gene therapy of tumours and autoimmune diseases.
Sequence 2525 BP; 625 A; 653 C; 906 G; 341 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             45 ggacttetgagteateetgtggggggggggggggggacaaggggaaaggggtgaatggtaet 104
                                                                                                                                                                                                               Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                               DNA encoding tumour antigen protein.

Tumour antigen protein; gastric cancer; intracellular digestion;
bind; major histocompatibility complex class I antigen; recognition;
I-cell; gene therapy; Lunour; autoimmune disease; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DNA encoding tumour antigen protein, fragments of which bind to MHC
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                                                                                                                                                                                                                                                   60 cctgtgggggtggaggtgggacaagggaaaggggtgaatggtactgctga 109
                                                                                                                                                                                                                                                                              Score 26; DB 1; Length 142;
Pred. No. 7.2;
0; Mismatches 15; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            gotgattacaacctctggtgctgcctccccctcctgtttat 145
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 47;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    17.6%; Score 25.8; Di
53.5%; Pred. No. 18;
tive 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                   V02016 standard; cDNA to mRNA; 2525 BP
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/*tag= a
/*tag= b
2439. .2506
/*tag= c
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04-JUN-1997.
04-JUN-1995. JO1893.
55-NOV-1996; JP-330424.
07-JUN-1996; JP-287572.
08-OCT-1996; JP-287572.
(ITOH/) ITOH K.
Imai Y. ITOH K, Shichijo S;
WPI: 98-042184/04.
P-PSDB; W44003.
                                                                                                                                                                                                                                                                                                                                                                                                                                       18-JUN-1998 (first entry)
DNA encoding tumour antigen
                                                                                                                                             Query Match
Best Local Similarity 70.0.
Best Local Similarity 70.0.
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Matches , 54;
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Key 5'UTR

3'UTR

RESULT 1
V02016/C
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AC V0200
BD 1018-J
DD 1

Query Match

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RESULT

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Gaps

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Length 383;

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S claim 24; Fig 7: 55pp; English.

This sequence represents the Babesia canis 2184/rhoptry antigen gene close sequence was determined from restriction fragments from the close B. canis lambda GEM-11 #9. B. canis was found to contain two close B. canis lambda GEM-11 #9. B. boxis 2184 gene. Gene I and gene 2 are very similar but gene 2 appears to contain a large number of combined vaccine which Mil stimulate a greater immune response and afford broader immunity than a single antigen vaccine. See also
anchoring peptides. Membrane anchoring peptides are fragments of the heavy chains of the associated isotypes and anchor the isotypes to the cell surface. The extracellular region of the encoded gamma-1 chain contains numerous acidic residues and is thought to comprise the mighs segment. 218 A; 515 C; 281 G; 240 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             21-MAY-1991 (first entry) Sequence encoding protein with the biological activity of HUSI Sequence encoding protein with the biological activity of HUSI (human seminal plasma inhibitor) type I inhibitors encoded on pRH 34. Bronchitis therapy; cervix inflammation; hyperfibrinolysis; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   45 ggacttctgagtcatcctgtgggggtggaggtgggacaagggaaaggggtgaatggtact 104
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                                                                                                                                                                                                                                                                                                                                                                                                                               59 tcctgtgggggtggaggtgggacaagggaaaggggtgaatggtactgctgattaca 114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                13-JAN-1994 (first entry)
B. canis 2184/rhoptry antigen gene 2 DNA.
Polymerase chain reaction; PCR; amplify; primer; detection;
babasiosis; parasite; Babesia bovis; 2184/rhoptry; antigen; gene;
repeat region; immune response; vaccine; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       288 TCCTCTGGGCCTCAGGGAGGGACACGGGAGAGGGGGGGGCGGTCCTGCTGAGGCCA 343
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                                                                                                                                                                                                                                                                                         Length 1254;
                                                                                                                                                                                                                                                                                                                                                          19; Indels
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                                                                                                                                                                                                                                                                                         DB 1;
                                                                                                                                                                                                                                                                                      17.4%; Score 25.6; D 66.1%; Pred. No. 17; tive 0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Babesia canis.
W09314204-A.
22-JUL-1993.
15-JAN-1992; AU-000399.
(CSIR ) COMMONWEALTH SCI & IND RES ORG.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 14
047076/c

10 047076 standard; DNA; 1371 BP. AC 047076; DNA; 1371 BP. DNA; BADES10818; DATASILE; BADES18 bo NA; PO 1972-04-A.

PN WO93142-04-A.

PN WO93142-04-A.

PN WO93142-04-A.

PN 15-7AN-1993; AU-001399.

PR 15-7AN-1993; AU-001399.

PR 15-7AN-1993; AU-001399.

PR 15-7AN-1993; AU-001399.

PN (CSTR) COMMONNEALTH SCI & IND R NA; PSDB; R9902.

PT DALTYMPLE BP. PETERS JN; DRECTING CLOSELY INKED GENES OF TAILS AND ACTOR TO ACTOR TO THE SEQUENCE ACTOR TO THE BUDGS ACTOR TO THE SEQUENCE ACTOR TO THE SECUENCE ACTOR TO THE ACTOR TO THE SECUENCE ACTOR TO 
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                                                                                                                                                                                                                                                                                                                            Local Similarity 66.1 tes 37; Conservative
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Best Local Similarity
Matches 44; Conserv
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N70930
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Wrij or zazovove.

R P-PSDB; P70584.

Thew protein with human seminal plasma inhibitor activity - and new protein with human seminal plasma inhibitor activity - and new protein with human seminal plasma inhibitors are useful e.g. for treating bronchitis or inflammation.

S claim 5; Fig 5; 28pp; German.

HUSI-type I inhibitors are useful for treating chronic bronchitis, chronic cervical inflammation; inflammation associated with excessive mucus prodn.; post-operative bleeding caused by hyperfibrinolysis, and shock. They are esp. suitable for administration as spray or inhalation. The expression control sequence on the DNA fragment in N70928 is bound to the 5' end of HUSI CDNA in an expression vector.

S Sequence 565 BP; 106 A; 162 C; 171 G; 126 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     65 ggggtggaggggacaagggaaaggggtgaatggtactgctgattacaacctctggtg 124
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           7 GGGGGGGGGGGGGGGGGGGGGGGGGGGGGTCACTCCTGCCTTCACCATGAAGTC 66
                                                                                                                                                      (CHEF ) GRUNENTHAL GMBH.
Heinzel R, Appelhans H, Gassen HG, Machleidt W, Seemuller U;
WPI; 87-222038/32.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DB 1; Length 565;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              33; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     'Match 17.1%; Score 25.2; DE Local Similarity 57.7%; Pred. No. 19; hes 45; Conservative 0; Mismatches
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Job time: 2656 sec
                 Location/Qualiflers
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                                    59. .457
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10-JAN-1986, 600571.
10-JAN-1986; DE-600571.
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